

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Orange, Lousia  
**STREAM NAME:** South Anna River  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAN-F01R\_SAR02A02      **TMDL MAP ID:** VAN-F01R-01  
**SEGMENT SIZE:** 7 - Miles  
**INITIAL LISTING:** 2002      **TMDL Schedule:** - 2010  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Headwaters of the South Anna River  
**RIVER MILE:** 103.93  
**LATITUDE:** 38.16861      **LONGTITUDE:** -78.21556

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Confluence of Dove Fork  
**RIVER MILE:** 96.93  
**LATITUDE:** 38.08278      **LONGTITUDE:** -78.18194

Segment starts at the headwaters of the South Anna River downstream to the confluence of Dove Fork to the South Anna River.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

Phosphorus

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

The DEQ maintains an ambient water quality monitoring station (8-SAR097.82) at Route 603. The monitoring data from this station revealed the following during the 2002 305(b) report assessment period:

1) Not supporting of the Clean Water Act's (CWA's) Swimming Use goal due to sufficient fecal coliform bacteria exceedances (9 of 24 samples - 37.5%);

2) Fully supporting but threatened of the CWA's Aquatic Life Use goal due sufficient exceedances of the phosphorous screening level of 200 ug/L (13 of 23 samples - 56.5%).

The source of impairment is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Louisa  
**STREAM NAME:** South Anna River  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAN-F01R\_SAR01A02      **TMDL MAP ID:**  
**SEGMENT SIZE:** 7.58 - Miles  
**INITIAL LISTING:** 2002      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Confluence of Dove Fork  
**RIVER MILE:** 96.93  
**LATITUDE:** 38.08278      **LONGTITUDE:** -78.18194

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Confluence of Wheeler Creek  
**RIVER MILE:** 89.35  
**LATITUDE:** 38.00833      **LONGTITUDE:** -78.14222

Segment starts at the confluence of Dove Fork to the South Anna River downstream to the mouth of waterbody F01, at the confluence of Wheeler Creek to the South Anna River.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

Phosphorus

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

Sufficient exceedances (4 of 8 samples - 50%) of the phosphorous screening value of 200 ug/L were recorded at the citizen monitoring station (8SAR-SR1A-MPRA) at Route 15 to assess this segment as fully supporting but threatened of the Clean Water Act's (CWA's) Aquatic Life Use goal in the 2002 305(b) report.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Hanover  
**STREAM NAME:** Newfound River  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAP-F05R\_NFD01A00      **TMDL MAP ID:** VAP-F05R-01  
**SEGMENT SIZE:** 10.61 - Miles  
**INITIAL LISTING:** 1998      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Needstan Creek  
**RIVER MILE:** 10.60  
**LATITUDE:** 37.85630      **LONGTITUDE:** -77.59560

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Mouth  
**RIVER MILE:** 0.00  
**LATITUDE:** 37.80980      **LONGTITUDE:** -77.49480

Newfound Creek from the confluence of Needstan Creek to its mouth.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Swimmable Use - Threatened

| IMPAIRMENT CAUSE: | IMPAIRMENT SOURCE |
|-------------------|-------------------|
| Fecal Coliform    | Unknown           |

## SUMMARY:

The segment was evaluated as fully supporting but threatened of the Swimmable Use goal in the 1998 cycle. However, during the year 2002 cycle, the fecal coliform violation rate was acceptable (2/25).

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Louisa  
**STREAM NAME:** Lake Anna / Contrary Creek  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAN-F07L\_CON01A02      **TMDL MAP ID:** VAN-F07L-02  
**SEGMENT SIZE:** 614 - Acres  
**INITIAL LISTING:** 2002      **TMDL Schedule:** - 2014  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Beginning of inundated waters of Contrary Creek

**RIVER MILE:** ~3.84

**LATITUDE:** 38.06333      **LONGITUDE:** -77.85806

## **DOWNSTREAM LIMIT:**

**DESCRIPTION:** Where the Contrary Creek arm joins the main body of the lake.

**RIVER MILE:** 0.00

**LATITUDE:** 38.07944      **LONGITUDE:** -77.81194

Segment includes the Contrary Creek arm of Lake Anna, beginning at the start of the inundated waters of Contrary Creek. The Freshwater Creek arm is not included in the segment.

## **CLEAN WATER ACT GOAL AND USE SUPPORT:**

Aquatic Life Use - Threatened

## **IMPAIRMENT CAUSE:**

Fish Tissue - PCBs

Copper, Lead, and Zinc in Sediment

## **IMPAIRMENT SOURCE**

Unknown

## **SUMMARY:**

Sufficient exceedances of the human health-risk based screening value (SV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded at DEQ's fish tissue/sediment monitoring station 8-CON003.84 to assess this segment as partially supporting of Clean Water Act's (CWA's) Fish Consumption Use goal. The SV for PCB's was exceeded in two species (channel catfish and carp) in samples collected May 11, 2000. In addition, the ER-M criteria for copper (270 ppm, dry weight), lead (218 ppm, dry weight), and zinc (410 ppm, dry weight) were exceeded in sediment samples collected May 11, 2000, at the same station. As a result, this segment was assessed as fully supporting but threatened of the CWA's Aquatic Life Use goal in the 2002 305(b) report.

The source of impairment is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Hanover  
**STREAM NAME:** Totopotomoy Creek  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAP-F13R\_TPT01A98      **TMDL MAP ID:** VAP-F13R-02  
**SEGMENT SIZE:** 9.6 - Miles  
**INITIAL LISTING:** 2002      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Strawhorn Creek  
**RIVER MILE:** 9.60  
**LATITUDE:** 37.65140      **LONGTITUDE:** -77.32740

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Mouth  
**RIVER MILE:** 0.00  
**LATITUDE:** 37.68550      **LONGTITUDE:** -77.20950

Strawhorn Creek to the Pamunkey River.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

Phosphorus

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

Totopotomoy Creek was assessed partially supporting of the Swimmable Use goal based on a fecal coliform violation rate of 5/27 at the Route 606 bridge (8-TPT004.37).

The segment was considered fully supporting but threatened of the Aquatic Life Use because of total phosphorus (2/19) exceedances.

The source of the fecal coliform and phosphorus violations is considered unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** King William, New Kent, Gloucester, York, James City Co., King and Queen  
**STREAM NAME:** York River and tributaries  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAP-F14E\_PMK01B00      **TMDL MAP ID:** VAP-F14E-05  
**SEGMENT SIZE:** 205.86 - Miles, Sq. Mi.  
**INITIAL LISTING:** 1998      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Mattaponi at Clifton and Pamunkey at Sweet Hall Landing

**RIVER MILE:**

**LATITUDE:**

**LONGITUDE:**

**DOWNSTREAM LIMIT:**

**DESCRIPTION:** Mouth at Tue Marsh Light

**RIVER MILE:** 0.00

**LATITUDE:** 37.24750      **LONGITUDE:** -76.38280

Estuarine portion of the Mattaponi River from Clifton and estuarine portion of the Pamunkey River from Sweet Hall Landing to West Point, and the York River from West Point to the mouth of the York River (Tue Marsh Light) including all tributaries to their headwaters that enter the estuarine portions of the Mattaponi River, Pamunkey River, and the York River. Excludes segments where nutrient monitoring indicates full use support.

## **CLEAN WATER ACT GOAL AND USE SUPPORT:**

Aquatic Life Use - Threatened

## **IMPAIRMENT CAUSE:**

Nutrient Enriched Waters designation

## **IMPAIRMENT SOURCE**

Unknown

## **SUMMARY:**

Designated a Nutrient Enriched Water in the Water Quality Standards

Source is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** King William, New Kent  
**STREAM NAME:** Pamunkey River  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAP-F14E\_PMK05B00      **TMDL MAP ID:** VAP-F14E-03  
**SEGMENT SIZE:** 6.85 - Sq. Mi.  
**INITIAL LISTING:** 2002      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Upstream extent of oligohaline segment  
**RIVER MILE:** 23.60  
**LATITUDE:** 37.68790      **LONGTITUDE:** -76.95650

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Mouth  
**RIVER MILE:** 0.00  
**LATITUDE:** 37.52290      **LONGTITUDE:** -76.79960

The oligohaline portion of the Pamunkey River, includes Hill and Lee Marshes.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

Benthics

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

The oligohaline portion of the Pamunkey River was assessed fully supporting but threatened of the Aquatic Life Use based on the results of the B-IBIs at Random Chesapeake Bay benthic stations.

3.8 at 03Y27  
2.0 AT 04Y25  
2.6 at 04Y26  
3.0 at 04Y27  
3.0 at 04Y29  
4.2 at 06Y23  
3.0 at 06Y27  
3.0 at 07Y19  
2.33 at 07Y20

Source is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** King William, New Kent  
**STREAM NAME:** Pamunkey River  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAP-F14E\_PMK03A00      **TMDL MAP ID:** VAP-F14E-01  
**SEGMENT SIZE:** 0.89 - Sq. Mi.  
**INITIAL LISTING:** 1998      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** River Mile 33.0  
**RIVER MILE:** 33.00  
**LATITUDE:** 37.74950      **LONGTITUDE:** -77.07120

## **DOWNSTREAM LIMIT:**

**DESCRIPTION:** River Mile 31.0  
**RIVER MILE:** 31.00  
**LATITUDE:** 37.73490      **LONGTITUDE:** -77.05020

1 mile radius around sample collection at 8-PMK032.00. Nested within segment VAP-F13E-01

## **CLEAN WATER ACT GOAL AND USE SUPPORT:**

Fish Consumption Use - Threatened, Aquatic Life Use - Threatened

## **IMPAIRMENT CAUSE:**

Fish Tissue - PCBs  
Sediments - Zinc

## **IMPAIRMENT SOURCE**

Unknown

## **SUMMARY:**

PCB in Gizzard Shad at 8-PMK032.00, 1995 sample

Zinc in sediment at 8-PMK032.00, 2000 sample

Source is unknown.



# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** King William, New Kent  
**STREAM NAME:** Pamunkey River  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAP-F14E\_PMK04A00      **TMDL MAP ID:** VAP-F14E-04  
**SEGMENT SIZE:** 6.21 - Sq. Mi.  
**INITIAL LISTING:** 2002      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Fall line  
**RIVER MILE:** 60.22  
**LATITUDE:** 37.66720      **LONGTITUDE:** -77.13670

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Boundary of tidal freshwater and oligohaline segments  
**RIVER MILE:** 23.60  
**LATITUDE:** 37.68790      **LONGTITUDE:** -76.95650

The estuarine portion of the Pamunkey River from river mile 32.75 to the boundary of the tidal freshwater and oligohaline segments.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

Benthics

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

The tidal freshwater portion of the Pamunkey River is considered fully supporting but threatened of the Aquatic Life Use based on 2 threatened results in 3 samples collected as part of the random Chesapeake Bay benthic study:

B-IBI 2.2 at 06Y24

B-IBI 3.0 at 06Y25

B-IBI 4.5 at 07Y21

Source is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** King William  
**STREAM NAME:** Cohoke Mill Creek  
**HYDROLOGIC UNIT:** 02080106  
**SEGMENT ID.:** VAP-F14R\_CMC01A00      **TMDL MAP ID:** VAP-F14R-01  
**SEGMENT SIZE:** 5.93 - Miles  
**INITIAL LISTING:** 2002      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Headwaters  
**RIVER MILE:** 8.45  
**LATITUDE:** 37.65910      **LONGTITUDE:** -76.99900

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Cohoke Millpond  
**RIVER MILE:** 2.52  
**LATITUDE:** 37.59510      **LONGTITUDE:** -76.94240

Mainstem upstream of Cohoke Millpond

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

| IMPAIRMENT CAUSE: | IMPAIRMENT SOURCE |
|-------------------|-------------------|
| Phosphorus        | Unknown           |

## SUMMARY:

Cohoke Mill Creek is considered fully supporting but threatened of the Aquatic Life Use because of a Total Phosphorus screening value exceedance rate of 3/27 at the Route 626 bridge (8-CMC005.16)

Source is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Spotsylvania  
**STREAM NAME:** Ni River Reservoir  
**HYDROLOGIC UNIT:** 02080105  
**SEGMENT ID.:** VAN-F15L\_NIR01A02      **TMDL MAP ID:**  
**SEGMENT SIZE:** 250 - Acres  
**INITIAL LISTING:** 2002      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Piney Run Branch arm of the reservoir  
**RIVER MILE:** 14.63  
**LATITUDE:** 38.24833      **LONGITUDE:** -77.62306

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Reservoir outlet  
**RIVER MILE:** 12.90  
**LATITUDE:** 38.24778      **LONGITUDE:** -77.59528

Segment includes the lower portion of the Ni River Reservoir, beginning at the Piney Run Branch arm of the reservoir and continuing downstream to the reservoir outlet. Acreage is estimated.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Drinking Water Supply - Threatened

## IMPAIRMENT CAUSE:

Manganese

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

The DEQ maintains a lake monitoring station (8-NIR012.99) in the Ni River Reservoir, just upstream from the spillway. The monitoring data from this station resulted in an assessment in the 2002 305(b) report of fully supporting but threatened of the Clean Water Act's Drinking Water Supply due to an exceedance of the manganese taste and odor water quality criterion (1 of 1 sample) during the assessment period.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** King and Queen, King William  
**STREAM NAME:** Mattaponi River  
**HYDROLOGIC UNIT:** 02080105  
**SEGMENT ID.:** VAP-F23E\_MPN02A98      **TMDL MAP ID:** VAP-F23E-02  
**SEGMENT SIZE:** 3.11 - Sq. Mi.  
**INITIAL LISTING:** 2002      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Tidal limit near Aylett  
**RIVER MILE:** 39.25  
**LATITUDE:** 37.74740      **LONGTITUDE:** -77.07960

## DOWNSTREAM LIMIT:

**DESCRIPTION:** End of tidal freshwater segment  
**RIVER MILE:** 18.00  
**LATITUDE:** 37.65420      **LONGTITUDE:** -76.90470

The tidal freshwater portion of the Mattaponi River.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

Benthics

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

The tidal freshwater Mattaponi is considered fully supporting but threatened of the Aquatic Lie Use based on the results of the probabilistic benthic study.

Random B-IBIs:  
4.2 at 04Y28/MA97-0687  
4.2 at 5Y23  
3.8 at 05Y24  
3.0 at 05Y25  
3.0 at 07Y25

The source of the benthic impairment is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** King and Queen, King William  
**STREAM NAME:** Mattaponi River  
**HYDROLOGIC UNIT:** 02080105  
**SEGMENT ID.:** VAP-F24E\_MPN03B02      **TMDL MAP ID:** VAP-F24E-01  
**SEGMENT SIZE:** 3.76 - Sq. Mi.  
**INITIAL LISTING:** 2002      **TMDL Schedule:** -  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Tidal freshwater/oligohaline boundary  
**RIVER MILE:** 18.00  
**LATITUDE:** 37.65420      **LONGITUDE:** -76.90470

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Mouth  
**RIVER MILE:** 0.00  
**LATITUDE:** 37.52090      **LONGITUDE:** -76.78780

The oligohaline portion of the mainstem Mattaponi River.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

Benthics

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

The oligohaline portion of the Mattaponi River was assessed threatened for Aquatic Life Use based on the results of the Chesapeake Bay probabilistic benthic study.

Random B-IBIs:

4.2 at 03Y28  
4.2 at 03Y29  
3.0 at 05Y26  
2.0 at 06Y21  
2.67 at 06Y22  
1.0 at 07Y22  
4.5 at 07Y23  
4.5 at 07Y24

The source of the benthic impairment is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** York  
**STREAM NAME:** York River (Lower)  
**HYDROLOGIC UNIT:** 02080107  
**SEGMENT ID.:** VAT-F26E\_YRK01D00      **TMDL MAP ID:** VAT-F26E-16  
**SEGMENT SIZE:** 0.5 - Sq. Mi.  
**INITIAL LISTING:** 2002      **TMDL Schedule:** - NA  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Segment begins 0.25 mile upstream of monitoring station 8-YRK016.57.

**RIVER MILE:** 16.82

**LATITUDE:** 37.32950      **LONGITUDE:** -76.61360

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Segment ends 0.25 mile downstream of monitoring station 8-YRK016.57

**RIVER MILE:** 16.32

**LATITUDE:** 37.32490      **LONGITUDE:** -76.61100

Segment begins 0.25 mile upstream of monitoring station 8-YRK016.57 and extends 0.25 mile downstream.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

## IMPAIRMENT CAUSE:

Fish Tissue - PCBs

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

There is insufficient monitoring data for fish tissue toxics recorded at DEQ's ambient water quality monitoring station to assess this segment for the Clean Water Act's Fish Consumption Use Support Goal. Data collected for PCBs indicated exceedance of the screening values. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Additional monitoring for confirmatory data will be implemented to allow definitive assessment of the presence or absence of impairment.

The cause of the elevated PCBs concentrations in fish tissue is currently unknown.

The York River monitoring station is in the area of the confluence with Queen Creek, which contains sediment PCBs. The land use in the watershed is mixed military installation, forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding area. The specific source of the elevated fish tissue toxic concentration is currently unknown, but may be related to the sediment PCBs located in Queen Creek sediments.

Additional monitoring is necessary to confirm impairment.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Gloucester  
**STREAM NAME:** Upper York Estuarine (All F26E estuarine streams)  
**HYDROLOGIC UNIT:** 02080107  
**SEGMENT ID.:** VAT-F26E\_YRK01A00 & **TMDL MAP ID:** VAT-F26E-02  
**SEGMENT SIZE:** 31.48 - Sq. Mi.  
**INITIAL LISTING:** 2002 **TMDL Schedule:** - NA  
**UPSTREAM LIMIT:**

**DESCRIPTION:** All estuarine mainstem & tributaries waters from start of F26E (West Point).

**RIVER MILE:** 33.48

**LATITUDE:** 37.52590 **LONGTITUDE:** -76.79420

## DOWNSTREAM LIMIT:

**DESCRIPTION:** All estuarine mainstem & tributaries waters to downstream terminus of segment F26E (line across York R. downstream of Queens Cr. north to downstream of Clay Bank).

**RIVER MILE:** 12.9

**LATITUDE:** 37.30720 **LONGTITUDE:** -76.59320

All estuarine mainstem & tributaries waters from start of F26E to the end of F26E.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

General Standard (Benthic)

Nutrient Enriched Waters designation

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

Estuarine benthic BIBI surveys indicating 22/70 in the impaired category is basis to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Designated a Nutrient Enriched Water in DEQ's Water Quality Standards is the basis to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the nutrient designation and the reduced benthic diversity are unknown.

The source of the reduced benthic diversity is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** York  
**STREAM NAME:** Queen Creek  
**HYDROLOGIC UNIT:** 02080107  
**SEGMENT ID.:** VAT-F26E\_QEN01A00      **TMDL MAP ID:** VAT-F26E-12  
**SEGMENT SIZE:** 0.21 - Sq. Mi.  
**INITIAL LISTING:** 1998      **TMDL Schedule:** - NA  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Segment begins at headwaters of creek.

**RIVER MILE:** 5.62

**LATITUDE:** 37.30170      **LONGTITUDE:** -76.61390

## **DOWNSTREAM LIMIT:**

**DESCRIPTION:** Segment ends at mouth of creek, confluence with York River.

**RIVER MILE:** 0.00

**LATITUDE:** 37.30220      **LONGTITUDE:** -76.70080

Segment extends from headwaters to mouth.

## **CLEAN WATER ACT GOAL AND USE SUPPORT:**

Aquatic Life Use - Threatened

## **IMPAIRMENT CAUSE:**

Sediments - PCBs

## **IMPAIRMENT SOURCE**

Unknown

## **SUMMARY:**

There is insufficient monitoring data for sediment toxics recorded at DEQ's ambient water quality monitoring stations to assess this segment for the Clean Water Act's Aquatic Life Use Support Goal. Data collected for PCBs indicated exceedance of the screening values. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause is currently unknown.

The Queen Creek monitoring station (7-QEN005.62) is located in York County in the area of Cheatham Annex. The land use in the watershed is mixed military installation, forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding area. The specific source of the elevated toxic concentration is currently unknown.

Additional monitoring is necessary to confirm impairment.



# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Gloucester  
**STREAM NAME:** Upper York Lake (All F26L lake streams)  
**HYDROLOGIC UNIT:** 02080107  
**SEGMENT ID.:** VAT-F26L\_00 THRU VA      **TMDL MAP ID:** VAT-F26L-01  
**SEGMENT SIZE:** 696.3 - Acres  
**INITIAL LISTING:** 1998      **TMDL Schedule:** - NA  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Segment begins at start of F26L (West Point).

**RIVER MILE:** 33.48

**LATITUDE:** 37.52590      **LONGTITUDE:** -76.79420

## **DOWNSTREAM LIMIT:**

**DESCRIPTION:** Segment ends at downstream terminus of segment F26L (line across York R. downstream of Queens Cr. north to downstream of Clay Bank).

**RIVER MILE:** 12.9

**LATITUDE:** 37.30720      **LONGTITUDE:** -76.59320

Segment begins at start of F26L (West Point) and extends to the end of F26L, line across York R.

## **CLEAN WATER ACT GOAL AND USE SUPPORT:**

Aquatic Life Use - Threatened

## **IMPAIRMENT CAUSE:**

Nutrient Enriched Waters designation

## **IMPAIRMENT SOURCE**

Unknown

## **SUMMARY:**

Designated a Nutrient Enriched Water in DEQ's Water Quality Standards.

Source is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Gloucester  
**STREAM NAME:** Upper York Riverine (All F26R riverine streams)  
**HYDROLOGIC UNIT:** 02080107  
**SEGMENT ID.:** VAT-F26R\_CTC01A00 & **TMDL MAP ID:** VAT-F26R-01  
**SEGMENT SIZE:** 153.74 - Miles  
**INITIAL LISTING:** 1998 **TMDL Schedule:** - NA  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Segment begins at start of F26R (West Point).

**RIVER MILE:** 33.48

**LATITUDE:** 37.52590 **LONGTITUDE:** -76.79420

## DOWNSTREAM LIMIT:

**DESCRIPTION:** Segment ends at downstream terminus of segment F26R (line across York R. downstream of Queens Cr. north to downstream of Clay Bank).

**RIVER MILE:** 12.9

**LATITUDE:** 37.30720 **LONGTITUDE:** -76.59320

Segment begins at start of F26R (West Point) and extends to the end of F26R, line across York R.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

Nutrient Enriched Waters designation

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

Designated a Nutrient Enriched Water in DEQ's Water Quality Standards.

Source is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Gloucester  
**STREAM NAME:** Lower York Estuarine (All F27E estuarine streams)  
**HYDROLOGIC UNIT:** 02080107  
**SEGMENT ID.:** VAT-F27E\_YRK01A00 & **TMDL MAP ID:** VAT-F27E-02  
**SEGMENT SIZE:** 31.69 - Sq. Mi.  
**INITIAL LISTING:** 2002 **TMDL Schedule:** - NA  
**UPSTREAM LIMIT:**

**DESCRIPTION:** All estuarine mainstem & tributaries waters from start of F27E (line across York R. downstream of Queens Cr. north to downstream of Clay Bank).

**RIVER MILE:** 12.90

**LATITUDE:** 37.31100 **LONGTITUDE:** -76.59760

## DOWNSTREAM LIMIT:

**DESCRIPTION:** All estuarine mainstem & tributaries waters to downstream terminus of segment F27E (line across mouth of York R.).

**RIVER MILE:** 0.00

**LATITUDE:** 37.24550 **LONGTITUDE:** -76.38840

All estuarine mainstem & tributaries waters from start of F27E to the end of F27E, mouth of York R.

## CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

## IMPAIRMENT CAUSE:

General Standard (Benthic)

Nutrient Enriched Waters designation

## IMPAIRMENT SOURCE

Unknown

## SUMMARY:

Estuarine benthic BIBI surveys indicating 22/70 in the impaired category is basis to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Designated a Nutrient Enriched Water in DEQ's Water Quality Standards is basis to assess this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the reduced benthic diversity are unknown.

The source of the reduced benthic diversity is unknown, but may be related to naturally occurring low dissolved oxygen conditions in bottom waters of deep estuarine trenches.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Gloucester  
**STREAM NAME:** Lower York Lakes (All F27L lakes)  
**HYDROLOGIC UNIT:** 02080107  
**SEGMENT ID.:** VAT-F27L\_01 thru VAT-F      **TMDL MAP ID:** VAT-F27L-01  
**SEGMENT SIZE:** 132.3 - Acres  
**INITIAL LISTING:** 1998      **TMDL Schedule:** - NA  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Segment begins at start of F27L (line across York R. downstream of Queens Cr. north to downstream of Clay Bank).

**RIVER MILE:** 12.90

**LATITUDE:** 37.31100      **LONGTITUDE:** -76.59760

## **DOWNSTREAM LIMIT:**

**DESCRIPTION:** Segment ends at downstream terminus of segment F27L (line across mouth of York R.).

**RIVER MILE:** 0.00

**LATITUDE:** 37.24550      **LONGTITUDE:** -76.38840

Segment begins at start of F27L and extends to the end of F27L (mouth of York R.).

## **CLEAN WATER ACT GOAL AND USE SUPPORT:**

Aquatic Life Use - Threatened

## **IMPAIRMENT CAUSE:**

Nutrient Enriched Waters designation

## **IMPAIRMENT SOURCE**

Unknown

## **SUMMARY:**

Designated a Nutrient Enriched Water in DEQ's Water Quality Standards.

Source is unknown.

# 2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

**RIVER BASIN:** YORK RIVER BASIN  
**CITY/COUNTY:** Gloucester  
**STREAM NAME:** Lower York Riverine (All F27E riverine streams)  
**HYDROLOGIC UNIT:** 02080107  
**SEGMENT ID.:** VAT-F27R\_ZZZ01A00      **TMDL MAP ID:** VAT-F27R-01  
**SEGMENT SIZE:** 22.35 - Miles  
**INITIAL LISTING:** 1998      **TMDL Schedule:** - NA  
**UPSTREAM LIMIT:**

**DESCRIPTION:** Segment begins at start of F27R (line across York R. downstream of Queens Cr. north to downstream of Clay Bank).

**RIVER MILE:** 12.90

**LATITUDE:** 37.31100      **LONGTITUDE:** -76.59760

## **DOWNSTREAM LIMIT:**

**DESCRIPTION:** Segment ends at downstream terminus of segment F27R (line across mouth of York R.).

**RIVER MILE:** 0.00

**LATITUDE:** 37.24550      **LONGTITUDE:** -76.38840

Segment begins at start of F27R and extends to the end of F27R (mouth of York R.).

## **CLEAN WATER ACT GOAL AND USE SUPPORT:**

Aquatic Life Use - Threatened

## **IMPAIRMENT CAUSE:**

Nutrient Enriched Waters designation

## **IMPAIRMENT SOURCE**

Unknown

## **SUMMARY:**

Designated a Nutrient Enriched Water in DEQ's Water Quality Standards.

Source is unknown.